

1 ATGGCGCAGA AGGGCCAAC T CAGTGACGAT GAGAAGTTCC TCTTTGTGGA
 51 CAAAACTTC ATCAACAGCC CAGTGGCCCA GGCTGACTGG GCCGCCAAGA
 101 GACTCGTCTG GGTCCCCTCG GAGAAGCAGG GCTTCGAGGC AGCCAGCATT
 151 AAGGAGGAGA AGGGGGATGA GGTGGTTGTG GAGCTGGTGG AGAATGGCAA
 201 GAAGGTCACG GTTGGGAAAG ATGACATCCA GAAGATGAAC CCACCCAAGT
 251 TCTCCAAGGT GGAGGACATG GCGGAGCTGA CGTGCCTCAA CGAAGCCTCC
 301 GTGCTACACA ACCTGAGGGA GCGGTACTTC TCAGGGCTAA TATATACGTA
 351 CTCTGGCCTC TTCTGCGTGG TGGTCAACCC CTATAAACAC CTGCCCATCT
 401 ACTCGGAGAA GATCGTCGAC ATGTACAAGG GCAAGAAGAG GCACGAGATG
 451 CCGCCTCACA TCTACGCCAT CGCAGACACG GCCTACCGGA GCATGCTTCA
 501 AGATCGGGAG GACCAGTCCA TTCTATGCAC AGGCGAGTCT GGAGCCGGGA
 551 AAACCGAAAA CACCAAGAAG GTCATTTCAGT ACCTGGCCGT GGTGGCCTCC
 601 TCCCACAAGG GCAAGAAAGA CACAAGTATC ACGCAAGGCC CATCTTTTGC
 651 CTACGGAGAG CTGGAAAAGC AGCTTCTACA AGCAAACCCG ATTCTGGAGG
 701 CTTTCGGCAA CGCCAAAACA GTGAAGAACG ACAACTCCTC ACGATTCGGC
 751 AAATTCATCC GCATCAACTT CGACGTCACG GGTTCATCG TGGGAGCCAA
 801 CATTGAGACC TATCTGCTAG AAAAATCACG GGCAATTCGC CAAGCCAGAG
 851 ACGAGAGGAC ATTCCACATC TTTTACTACA TGATTGCTGG AGCCAAGGAG
 901 AAGATGAGAA GTGACTTGCT TTTGGAGGGC TTCAACAAC TACACCTTCCT
 951 CTCCAATGGC TTTGTGCCCA TCCCAGCAGC CCAGGATGAT GAGATGTTCC
 1001 AGGAAACCGT GGAGGCCATG GCAATCATGG GTTTCAGCGA GGAGGAGCAG
 1051 CTATCCATAT TGAAGGTGGT ATCATCGGTC CTGCAGCTTG GAAATATCGT
 1101 CTTCAAGAAG GAAAGAAACA CAGACCAGGC GTCCATGCCA GATAACACAG
 1151 CTGCTCAGAA AGTTTGCCAC CTCATGGGAA TTAATGTGAC AGATTTCACC
 1201 AGATCCATCC TCACTCCTCG TATCAAGGTT GGGCGAGATG TGGTACAGAA
 1251 AGCTCAGACA AAAGAACAGG CTGACTTTGC TGTAGAGGCT TTGGCCAAGG
 1301 CAACATATGA GCGCCTTTTC CGCTGGATAC TCACCCGCGT GAACAAAGCC
 1351 CTGGACAAGA CCCATCGGCA AGGGGCTTCC TTCCTGGGGA TCCTGGATAT
 1401 AGCTGGATTT GAGATCTTTG AGGTGAACTC CTTGAGCAG CTGTGCATCA
 1451 ACTACACCAA CGAGAAGCTG CAGCAGCTCT TCAACCACAC CATGTTTCATC

FIG. 1A

1501 CTGGAGCAGG AGGAGTACCA GCGCGAGGGC ATCGAGTGGA ACTTCATCGA
1551 CTTTGGGCTG GACCTACAGC CCTGCATCGA GCTCATCGAG CGACCGAACA
1601 ACCCTCCAGG TGTGCTGGCC CTGCTGGACG AGGAATGCTG GTTCCCCAAA
1651 GCCACGGACA AGTCTTTTCGT GGAGAAGCTG TGCACGGAGC AGGGCAGCCA
1701 CCCCAGTTTC CAGAAGCCCA AGCAGCTCAA GGACAAGACT GAGTTCTCCA
1751 TCATCCATTA TGCTGGGAAG GTGGACTATA ATGCGAGTGC CTGGCTGACC
1801 AAGAATATGG ACCCGCTGAA TGACAACGTG ACTTCCCTGC TCAATGCCTC
1851 CTCCGACAAG TTTGTGGCCG ACCTGTGGAA GGACGTGGAC CGCATCGTGG
1901 GCCTGGACCA GATGGCCAAG ATGACGGAGA GCTCGCTGCC CAGCGCCTCC
1951 AAGACCAAGA AGGGCATGTT CCGCACAGTG GGGCAGCTGT ACAAGGAGCA
2001 GCTGGGCAAG CTGATGACCA CGCTACGCAA CACCACGCCC AACTTCGTGC
2051 GCTGCATCAT CCCCACCAC GAGAAGAGGT CCGGCAAGCT GGATGCGTTC
2101 CTGGTGCTGG AGCAGCTGCG GTGCAATGGG GTGCTGGAAG GCATTTCGCAT
2151 CTGCCGGCAG GGCTTCCCCA ACCGGATCGT CTTCCAGGAG TTCCGCCAAC
2201 GCTACGAGAT CCTGGCGGCG AATGCCATCC CCAAAGGCTT CATGGACGGG
2251 AAGCAGGCCT GCATTCTCAT GATCAAAGCC CTGGAACCTG ACCCCAACTT
2301 ATACAGGATA GGGCAGAGCA AAATCTTCTT CCGAACTGGC GTCCTGGCCC
2351 ACCTAGAGGA GGAGCGAGAT TTGAAGATCA CCGATGTCAT CATGGCCTTC
2401 CAGGCGATGT GTCGTGGCTA CTTGGCCAGA AAGGCTTTTG CCAAGAGGCA
2451 GCAGCAGCTG ACCGCCATGA AGGTGATTCA GAGGAACCTG GCCGCCTACC
2501 TCAAGCTGCG GAACTGGCAG TGGTGGAGGC TTTTCACCAA AGTGAAGCCA
2551 CTGCTGCAGG TGACACGGCA GGAGGAGGAG ATGCAGGCCA AGGAGGATGA
2601 ACTGCAGAAG ACCAAGGAGC GGCAGCAGAA GGCAGAGAAT GAGCTTAAGG
2651 AGCTGGAACA GAAGCACTCG CAGCTGACCG AGGAGAAGAA CCTGCTACAG
2701 GAACAGCTGC AGGCAGAGAC AGAGCTGTAT GCAGAGGCTG AGGAGATGCG
2751 GGTGCGGCTG GCGGCCAAGA AGCAGGAGCT GGAGGAGATA CTGCATGAGA
2801 TGGAGGCCCCG CCTGGAGGAG GAGGAAGACA GGGGCCAGCA GCTACAGGCT
2851 GAAAGGAAGA AGATGGCCCA GCAGATGCTG GACCTTGAAG AACAGCTGGA
2901 GGAGGAGGAA GCTGCCAGGC AGAAGCTGCA ACTTGAGAAG GTCACGGCTG
2951 AGGCCAAGAT CAAGAACTG GAGGATGAGA TCCTGGTCAT GGATGATCAG
3001 AACATAAAC TATCAAAAGA ACGAAAACCT CTTGAGGAGA GGATTAGTGA

FIG. 1B

3051 CTTAACGACA AATCTTGCAG AAGAGGAAGA AAAGGCCAAG AATCTTACCA
3101 AGCTGAAAAA CAAGCATGAA TCTATGATTT CAGAACTGGA AGTGCGGCTA
3151 AAGAAGGAAG AGAAGAGCCG ACAGGAGCTG GAGAAGCTGA AACGGAAGCT
3201 GGAGGGTGAT GCCAGCGACT TCCACGAGCA GATCGCTGAC CTCCAGGCGC
3251 AGATCGCAGA GCTCAAGATG CAGCTGGCCA AGAAGGAGGA GGAGCTGCAG
3301 GCGGCCCTGG CCAGGCTTGA CGATGAAATC GCTCAGAAGA ACAATGCCCT
3351 GAAGAAGATC CGGGAGCTGG AGGGCCACAT CTCAGACCTC CAGGAGGACC
3401 TGGACTCAGA GCGGGCCGCC AGGAACAAGG CTGAAAAGCA GAAGCGAGAC
3451 CTCGGCGAGG AGCTGGAGGC CCTAAAGACA GAGCTGGAAG ACACACTGGA
3501 CAGCACAGCC ACTCAGCAGG AGCTCAGGGC CAAGAGGGAG CAGGAGGTGA
3551 CGGTGCTGAA GAAGGCCCTG GATGAAGAGA CGCGGTCCCA TGAGGCTCAG
3601 GTCCAGGAGA TGAGGCAGAA ACACGCACAG GCGGTGGAGG AGCTCACAGA
3651 GCAGCTTGAG CAGTTCAAGA GGGCCAAGGC GAACCTAGAC AAGAATAAGC
3701 AGACGCTGGA GAAAGAGAAC GCAGACCTGG CCGGGGAGCT GCGGGTCCTG
3751 GGCCAGGCCA AGCAGGAGGT GGAACATAAG AAGAAGAAGC TGGAGGCGCA
3801 GGTGCAGGAG CTGCAGTCCA AGTGCAGCGA TGGGGAGCGG GCCCCGGCGG
3851 AGCTCAATGA CAAAGTCCAC AAGCTGCAGA ATGAAGTTGA GAGCGTCACA
3901 GGGATGCTTA ACAGAGCCGA GGGGAAGGCC ATTAAGCTGG CCAAGGACGT
3951 GGCGTCCCTC AGTTCCAGC TCCAGGACAC CCAGGAGCTG CTTCAAGAAG
4001 AAACCCGGCA GAAGCTCAAC GTGTCTACGA AGCTGCGCCA GCTGGAGGAG
4051 GAGCGGAACA GCCTGCAAGA CCAGCTGGAC GAGGAGATGG AGGCCAAGCA
4101 GAACCTGGAG CGCCACATCT CCACTCTCAA CATCCAGCTC TCCGACTCGA
4151 AGAAGAAGCT GCAGGACTTT GCCAGCACCG TGGAAGCTCT GGAAGAGGGG
4201 AAGAAGAGGT TCCAGAAGGA GATCGAGAAC CTCACCCAGC AGTACGAGGA
4251 GAAGGCGGCC GCTTATGATA AACTGGAAAA GACCAAGAAC AGGCTTCAGC
4301 AGGAGCTGGA CGACCTGGTT GTTGATTTGG ACAACCAGCG GCAACTCGTG
4351 TCCAACCTGG AAAAGAAGCA GAGGAAATTT GATCAGTTGT TAGCCGAGGA
4401 GAAAAACATC TCTTCCAAAT ACGCGGATGA GAGGGACAGA GCTGAGGCAG
4451 AAGCCAGGGA GAAGGAAACC AAGGCCCTGT CCCTGGCTCG GGCCCTTGAA
4501 GAGGCCTTGG AAGCCAAAGA GGAACCTGAG CGGACCAACA AAATGCTCAA
4551 AGCCGAAATG GAAGACCTGG TCAGCTCCAA GGATGACGTG GGCAAGAACG

FIG. 1C

4601 TCCATGAGCT GGAGAAGTCC AAGCGGGCCC TGGAGACCCA GATGGAGGAG
 4651 ATGAAGACGC AGCTGGAAGA GCTGGAGGAC GAGCTGCAAG CCACGGAGGA
 4701 CGCCAAACTG CGGCTGGAAG TCAACATGCA GGCGCTCAAG GGCCAGTTCTG
 4751 AAAGGGATCT CCAAGCCCCG GACGAGCAGA ATGAGGAGAA GAGGAGGCAA
 4801 CTGCAGAGAC AGCTTCACGA GTATGAGACG GAACTGGAAG ACGAGCGAAA
 4851 GCAACGTGCC CTGGCAGCTG CAGCAAAGAA GAAGCTGGAA GGGGACCTGA
 4901 AAGACCTGGA GCTTCAGGCC GACTCTGCCA TCAAGGGGAG GGAGGAAGCC
 4951 ATCAAGCAGC TACGCAAAC TGCAGGCTCAG ATGAAGGACT TTCAAAGAGA
 5001 GCTGGAAGAT GCCCGTGCCT CCAGAGATGA GATCTTTGCC ACAGCCAAAG
 5051 AGAATGAGAA GAAAGCCAAG AGCTTGGAAG CAGACCTCAT GCAGCTACAA
 5101 GAGGACCTCG CCGCCGCTGA GAGGGCTCGC AAACAAGCGG ACCTCGAGAA
 5151 GGAGGAACTG GCAGAGGAGC TGGCCAGTAG CCTGTCGGGA AGGAACGCAC
 5201 TCCAGGACGA GAAGCGCCGC CTGGAGGCCC GGATCGCCCA GCTGGAGGAG
 5251 GAGCTGGAGG AGGAGCAGGG CAACATGGAG GCCATGAGCG ACCGGGTCCG
 5301 CAAAGCCACA CAGCAGGCCG AGCAGCTCAG CAACGAGCTG GCCACAGAGC
 5351 GCAGCACGGC CCAGAAGAAT GAGAGTGCCC GGCAGCAGCT CGAGCGGCAG
 5401 AACAAAGGAGC TCCGGAGCAA GCTCCACGAG ATGGAGGGGG CCGTCAAGTC
 5451 CAAGTTCAAG TCCACCATCG CGGCGCTGGA GGCCAAGATT GCACAGCTGG
 5501 AGGAGCAGGT CGAGCAGGAG GCCAGAGAGA AACAGGCGGC CACCAAGTCG
 5551 CTGAAGCAGA AAGACAAGAA GCTGAAGGAA ATCTTGCTGC AGGTGGAGGA
 5601 CGAGCGCAAG ATGGCCGAGC AGTACAAGGA GCAGGCAGAG AAAGGCAATG
 5651 CCAGGGTCAA GCAGCTCAAG AGGCAGCTGG AGGAGGCAGA GGAGGAGTCC
 5701 CAGCGCATCA ACGCCAACCG CAGGAAGCTG CAGCGGGAGC TGGATGAGGC
 5751 CACGGAGAGC AACGAGGCCA TGGGCCGCGA GGTGAACGCA CTCAAGAGCA
 5801 AGCTCAGAGG GCCCCCCCCA CAGGAACTT CGCAG

FIG. 1D

1 MAQKGQLSDD EKFLFVDKNF INSPVAQADW AAKRLVWVPS EKQGFEEAASI
51 KEEKGDEVVV ELVENGKKVT VGKDDIQKMN PPKFSKVEDM AELTCLNEAS
101 VLHNLRLERYF SGLIYTYSGL FCVVVNPKYKH LPIYSEKIVD MYKGKKRHEM
151 PPHIYAIADT AYRSMLQDRE DQSILCTGES GAGKTENTKK VIQYLAVVAS
201 SHKGKKDTSI TQGPSFAYGE LEKQLLQANP ILEAFGNAKT VKNDNSSRFG
251 KFIRINFDTV GYIVGANIET YLLEKSRAIR QARDERTFHI FYMIAGAKE
301 KMRSDDLLEG FNNTYFLSNG FVPIPAQDD EMFQETVEAM AIMGFSEEEQ
351 LSILKVSSV LQLGNIVFKK ERNTDQASMP DNTAAQKVCH LMGINVTDFT
401 RSILTPRIKV GRDVVQKAQT KEQADFAVEA LAKATYERLF RWILTRVNKA
451 LDKTHRQGAS FLGILDIAGF EIFEVNSFEQ LCINYTNEKL QQLFNHTMFI
501 LEQEEYQREG IEWNFIDFGL DLQPCIELIE RPNNPPGVLA LLDEECWFPPK
551 ATDKSFVEKL CTEQGSHPKF QKPKQLKDKT EFSIIHYAGK VDYNASAWLT
601 KNMDPLNDNV TSLLNASSDK FVADLWKDVD RIVGLDQMAK MTESSLPSAS
651 KTKKGMFRTV GQLYKEQLGK LMTTLRNTTP NFVRCIIPNH EKRSGLDAF
701 LVLEQLRCNG VLEGIRICRQ GFPNRIVFQE FRQRYEILAA NAIPKGFMDG
751 KQACILMIKA LELDPNLYRI GQSKIFFRTG VLAHLEEERD LKITDVIMAF
801 QAMCRGYLAR KAFAKRQQQL TAMKVIQRNC AAYLKLNRWQ WWRLFTKVKP
851 LLQVTRQEEE MQAKEDELQK TKERQQAEN ELKELEQKHS QLTEEKNLLQ
901 EQLQAETELY AEAEEMRVRL AAKQEELEEI LHEMEARLEE EEDRGQQLQA
951 ERKKMAQQML DLEEQLEEEE AARQKLQLEK VTAEAKIKKL EDEILVMDDQ
1001 NNKLSKERKL LEERISDLTT NLAESEEKAK NLTKLKNKHE SMISELEVRL
1051 KKEEKSRQEL EKLKRKLEGD ASDFHEQIAD LQAQIAELKM QLAKKEEELQ
1101 AALARLDDEI AQKNNALKKI RELEGHISDL QEDLDSERAA RNKAQKQKRD
1151 LGEELEALKT ELEDTLSTA TQQELRAKRE QEVTVLKKAL DEETRSHEAQ
1201 VQEMRQKHAQ AVEELTEQLE QFKRAKANLD KNKQTLEKEN ADLAGELRVL
1251 GQAKQEVVEHK KKKLEAQVQE LQSKCSDGER ARAELNDKVH KLQNEVESVT
1301 GMLNEAEGKA IKLAKDVASL SSQLODTQEL LQEETRQKLN VSTKLRQLEE
1351 ERNSLQDQLD EEMEAKQNLE RHISTLNIQL SDSKKKLQDF ASTVEALEEG
1401 KKRFOKEIEN LTQQYEEKAA AYDKLEKTKN RLQQELDDL VDLNQRQLV
1451 SNLEKKQRKF DQLLAEEKNI SSKYADERDR ABAAAREKET KALSLARALE
1501 EALEAKEELE RTNKMLKAEM EDLVSSKDDV GKNVHELEKS KRALETQMEE

FIG. 2A

1551 MKTQLEELED ELQATEDAKL RLEVNMQALK GQFERDLQAR DEQNEEKRRQ
1601 LQRQLHEYET ELEDERKQRA LAAAANKKLE GDLKDLELQA DSAIKGREEA
1651 IKQLRKLQAA MKDFQRELED ARASRDEIFA TAKENKKAK SLEADLMQLQ
1701 EDLAAAERAR KQADLEKEEL ABELASSLSG RNALQDEKRR LEARIAQLEE
1751 EEEEEQGNME AMSDRVRKAT QQAEQLSNEL ATERSTAQKN ESARQQLERQ
1801 NKELRSKLHE MEGAVKSKFK STIAALEAKI AQLEEQVEQE AREKQAATKS
1851 LKQKDKKLKE ILLQVEDERK MAEQYKEQAE KGNARVKQLK RQLEEAEES
1901 QRINANRRKL QRELDEATES NEAMGREVNA LKSKLRGPPP QETSQ

FIG. 2B

1 ATGGCGCAGA AGGGCCAAC T CAGTGACGAT GAGAAGTTCC TCTTTGTGGA
 51 CAAAAACTTC ATCAACAGCC CAGTGGCCCA GGCTGACTGG GCCGCCAAGA
 101 GACTCGTCTG GGTCCCCTCG GAGAAGCAGG GCTTCGAGGC AGCCAGCATT
 151 AAGGAGGAGA AGGGGGATGA GGTGGTTGTG GAGCTGGTGG AGAATGGCAA
 201 GAAGGTCACG GTTGGGAAAG ATGACATCCA GAAGATGAAC CCACCCAAGT
 251 TCTCCAAGGT GGAGGACATG GCGGAGCTGA CGTGCCTCAA CGAAGCCTCC
 301 GTGCTACACA ACCTGAGGGA GCGGTACTTC TCAGGGCTAA TATATACGTA
 351 CTCTGGCCTC TTCTGCGTGG TGGTCAACCC CTATAAACAC CTGCCCATCT
 401 ACTCGGAGAA GATCGTCGAC ATGTACAAGG GCAAGAAGAG GCACGAGATG
 451 CCGCCTCACA TCTACGCCAT CGCAGACACG GCCTACCGGA GCATGCTTCA
 501 AGATCGGGAG GACCAGTCCA TTCTATGCAC AGGCGAGTCT GGAGCCGGGA
 551 AAACCGAAAA CACCAAGAAG GTCATTCACT ACCTGGCCGT GGTGGCCTCC
 601 TCCCACAAGG GCAAGAAAGA CACAAGTATC ACGCAAGGCC CATCTTTTGC
 651 CTACGGAGAG CTGGAAAAGC AGCTTCTACA AGCAAACCCG ATTCTGGAGG
 701 CTTTCGGCAA CGCCAAAACA GTGAAGAAGC ACAACTCCTC ACGATTCGGC
 751 AAATTCATCC GCATCAACTT CGACGTCACG GGTACATCG TGGGAGCCAA
 801 CATTGAGACC TATCTGCTAG AAAAATCACG GGCAATTCGC CAAGCCAGAG
 851 ACGAGAGGAC ATTCCACATC TTTTACTACA TGATTGCTGG AGCCAAGGAG
 901 AAGATGAGAA GTGACTTGCT TTTGGAGGGC TTCAACAAC TACACCTTCCT
 951 CTCCAATGGC TTTGTGCCCA TCCCAGCAGC CCAGGATGAT GAGATGTTCC
 1001 AGGAAACCGT GGAGGCCATG GCAATCATGG GTTTCAGCGA GGAGGAGCAG
 1051 CTATCCATAT TGAAGGTGGT ATCATCGGTC CTGCAGCTTG GAAATATCGT
 1101 CTTCAAGAAG GAAAGAAACA CAGACCAGGC GTCCATGCCA GATAACACAG
 1151 CTGCTCAGAA AGTTTGCCAC CTCATGGGAA TTAATGTGAC AGATTTTACC
 1201 AGATCCATCC TCACTCCTCG TATCAAGGTT GGGCGAGATG TGGTACAGAA
 1251 AGCTCAGACA AAAGAACAGG CTGACTTTGC TGTAGAGGCT TTGGCCAAGG
 1301 CAACATATGA GCGCCTTTTC CGCTGGATAC TCACCCGCGT GAACAAAGCC
 1351 CTGGACAAGA CCCATCGGCA AGGGGCTTCC TTCTGGGGA TCCTGGATAT
 1401 AGCTGGATTT GAGATCTTTG AGGTGAACTC CTTGAGCAG CTGTGCATCA
 1451 ACTACACCAA CGAGAAGCTG CAGCAGCTCT TCAACCACAC CATGTTTCATC
 1501 CTGGAGCAGG AGGAGTACCA GCGCGAGGGC ATCGAGTGGA ACTTCATCGA

FIG. 3A

1551 CTTTGGGCTG GACCTACAGC CCTGCATCGA GCTCATCGAG CGACCGAACA
 1601 ACCCTCCAGG TGTGCTGGCC CTGCTGGACG AGGAATGCTG GTTCCCCAAA
 1651 GCCACGGACA AGTCTTTCGT GGAGAAGCTG TGCACGGAGC AGGGCAGCCA
 1701 CCCCAGTTC CAGAAGCCCA AGCAGCTCAA GGACAAGACT GAGTTCTCCA
 1751 TCATCCATTA TGCTGGGAAG GTGGACTATA ATGCGAGTGC CTGGCTGACC
 1801 AAGAATATGG ACCCGCTGAA TGACAACGTG ACTTCCCTGC TCAATGCCTC
 1851 CTCCGACAAG TTTGTGGCCG ACCTGTGGAA GGACGTGGAC CGCATCGTGG
 1901 GCCTGGACCA GATGGCCAAG ATGACGGAGA GCTCGCTGCC CAGCGCCTCC
 1951 AAGACCAAGA AGGGCATGTT CCGCACAGTG GGGCAGCTGT ACAAGGAGCA
 2001 GCTGGGCAAG CTGATGACCA CGCTACGCAA CACCACGCCC AACTTCGTGC
 2051 GCTGCATCAT CCCCACCAC GAGAAGAGGT CCGGCAAGCT GGATGCGTTC
 2101 CTGGTGCTGG AGCAGCTGCG GTGCAATGGG GTGCTGGAAG GCATTTCGCAT
 2151 CTGCCGGCAG GGCTTCCCCA ACCGGATCGT CTTCCAGGAG TTCCGCCAAC
 2201 GCTACGAGAT CCTGGCGGCG AATGCCATCC CCAAAGGCTT CATGGACGGG
 2251 AAGCAGGCTT GCATTCTCAT GATCAAAGCC CTGGAACCTG ACCCCAACCT
 2301 ATACAGGATA GGGCAGAGCA AAATCTTCTT CCGAACTGGC GTCCTGGCCC
 2351 ACCTAGAGGA GGAGCGAGAT TTGAAGATCA CCGATGTCAT CATGGCCTTC
 2401 CAGGCGATGT GTCGTGGCTA CTTGGCCAGA AAGGCTTTTG CCAAGAGGCA
 2451 GCAGCAGCTG ACCGCCATGA AGGTGATTCA GAGGAACTGC GCCGCTACC
 2501 TCAAGCTGCG GAACTGGCAG TGGTGGAGGC TTTTCACCAA AGTGAAGCCA
 2551 CTGCTGCAGG TGACACGGCA GGAGGAGGAG ATGCAGGCCA AGGAGGATGA
 2601 ACTGCAGAAG ACCAAGGAGC GGCAGCAGAA GGCAGAGAAT GAGCTTAAGG
 2651 AGCTGGAACA GAAGCACTCG CAGCTGACCG AGGAGAAGAA CCTGCTACAG
 2701 GAACAGCTGC AGGCAGAGAC AGAGCTGTAT GCAGAGGCTG AGGAGATGCG
 2751 GGTGCGGCTG GCGGCCAAGA AGCAGGAGCT GGAGGAGATA CTGCATGAGA
 2801 TGGAGGCCCC CCTGGAGGAG GAGGAAGACA GGGGCCAGCA GCTACAGGCT
 2851 GAAAGGAAGA AGATGGCCCA GCAGATGCTG GACCTTGAAG AACAGCTGGA
 2901 GGAGGAGGAA GCTGCCAGGC AGAAGCTGCA ACTTGAGAAG GTCACGGCTG
 2951 AGGCCAAGAT CAAGAACTG GAGGATGAGA TCCTGGTCAT GGATGATCAG
 3001 AACAAATAAC TATCAAAAGA ACGAAACTC CTTGAGGAGA GGATTAGTGA
 3051 CTTAACGACA AATCTTGCGA AAGAGGAAGA AAAGGCCAAG AATCTTACCA

FIG. 3B

4651 ATGAAGACGC AGCTGGAAGA GCTGGAGGAC GAGCTGCAAG CCACGGAGGA
 4701 CGCCAAACTG CGGCTGGAAG TCAACATGCA GGCGCTCAAG GGCCAGTTCG
 4751 AAAGGGATCT CCAAGCCCGG GACGAGCAGA ATGAGGAGAA GAGGAGGCAA
 4801 CTGCAGAGAC AGCTTCACGA GTATGAGACG GAACTGGAAG ACGAGCGAAA
 4851 GCAACGTGCC CTGGCAGCTG CAGCAAAGAA GAAGCTGGAA GGGGACCTGA
 4901 AAGACCTGGA GCTTCAGGCC GACTCTGCCA TCAAGGGGAG GGAGGAAGCC
 4951 ATCAAGCAGC TACGCAAAC TGCAGGCTCAG ATGAAGGACT TTCAAAGAGA
 5001 GCTGGAAGAT GCCCGTGCCT CCAGAGATGA GATCTTTGCC ACAGCCAAAG
 5051 AGAATGAGAA GAAAGCCAAG AGCTTGGAAG CAGACCTCAT GCAGCTACAA
 5101 GAGGACCTCG CCGCCGCTGA GAGGGCTCGC AAACAAGCGG ACCTCGAGAA
 5151 GGAGGAAGTGC GCAGAGGAGC TGGCCAGTAG CCTGTCGGGA AGGAACGCAC
 5201 TCCAGGACGA GAAGCGCCGC CTGGAGGCCC GGATCGCCCA GCTGGAGGAG
 5251 GAGCTGGAGG AGGAGCAGGG CAACATGGAG GCCATGAGCG ACCGGGTCCG
 5301 CAAAGCCACA CAGCAGGCCG AGCAGCTCAG CAACGAGCTG GCCACAGAGC
 5351 GCAGCACGGC CCAGAAGAAT GAGAGTGCCC GGCAGCAGCT CGAGCGGCAG
 5401 AACAAGGAGC TCCGGAGCAA GCTCCACGAG ATGGAGGGGG CCGTCAAGTC
 5451 CAAGTTCAAG TCCACCATCG CGGCGCTGGA GGCCAAGATT GCACAGCTGG
 5501 AGGAGCAGGT CGAGCAGGAG GCCAGAGAGA AACAGGCGGC CACCAAGTCG
 5551 CTGAAGCAGA AAGACAAGAA GCTGAAGGAA ATCTTGCTGC AGGTGGAGGA
 5601 CGAGCGCAAG ATGGCCGAGC AGTACAAGGA GCAGGCAGAG AAAGGCAATG
 5651 CCAGGGTCAA GCAGCTCAAG AGGCAGCTGG AGGAGGCAGA GGAGGAGTCC
 5701 CAGCGCATCA ACGCCAACCG CAGGAAGCTG CAGCGGGAGC TGGATGAGGC
 5751 CACGGAGAGC AACGAGGCCA TGGGCCGCGA GGTGAACGCA CTCAAGAGCA
 5801 AGCTCAGGCG AGGAAACGAG ACCTCTTTCG TTCCTTCTAG AAGGTCTGGA
 5851 GGACGTAGAG TTATTGAAAA TGCAGATGGT TCTGAGGAGG AAACGGACAC
 5901 TCGAGACGCA GACTTCAATG GAACCAAGGC CAGTGAA

FIG. 3D

1 MAQKGQLSDD EKFLFVDKNF INSPVAQADW AAKRLVWVPS EKQGFEEAASI
51 KEEKGDEVVV ELVENGKKVT VGKDDIQKMN PPKFSKVEDM AELTCLNEAS
101 VLHNLRRERYF SGLIYTYSGL FCVVVNPKYH LPIYSEKIVD MYKGKKRHEM
151 PPHIYAIADT AYRSMQLQDRE DQSILCTGES GAGKTENTKK VIQYLAVVAS
201 SHKGKKDTSI TQGPSFAYGE LEKQLLQANP ILEAFGNAKT VKNDNSSRFG
251 KFIRINFDTV GYIVGANIET YLLEKSRAIR QARDERTFHI FYMIAGAKE
301 KMRSDDLLEG FNNYTFLSNG FVPIPAQDD EMFQETVEAM AIMGFSEEEQ
351 LSILKVSSV LQLGNIVFKK ERNTDQASMP DNTAAQKVCH LMGINVTDF
401 RSILTPRIKV GRDQVQKAQT KEQADFAVEA LAKATYERLF RWILTRVNKA
451 LDKTHRQAS FLGILDIAGF EIFEVNSFEQ LCINYTNEKL QQLFNHTMFI
501 LEQEEYQREG IEWNFIDFGL DLQPCIELIE RPNPPGVLA LLDEECWFPK
551 ATDKSFVEKL CTEQGSHPKF QKPKQLKDKT EFSIIHYAGK VDYNASAWLT
601 KNMDPLNDNV TSLLNASSDK FVADLWKDVD RIVGLDQMAK MTESSLPSAS
651 KTKKGMFRTV GQLYKEQLGK LMTTLRNTTP NFVRCIIPNH EKRSGLDAF
701 LVLEQLRCNG VLEGIRICRQ GFPNRIVFQE FRQRYELAA NAIPKGFMDG
751 KQACILMIKA LELDPNLYRI GQSKIFFRTG VLAHLEERD LKITDVIMAF
801 QAMCRGYLAR KAFKRQQQL TAMKVIQRNC AAYLKLNRWQ WWRLFTKVKP
851 LLQVTRQEEE MQAKEDELQK TKERQQAEN ELKELEQKHS QLTEEKNLLQ
901 EQLQAETELY AEAEMRVRL AAKQELEEI LHEMEARLEE BEDRGQQLQA
951 ERKKMAQOML DLEEQLEEEE AARQKLQLEK VTABAKIKKL EDEILVMDDQ
1001 NNKLSKERKL LEERISDLTT NLAESEEKAK NLTKLKNKHE SMISELEVRL
1051 KKEEKSREL EKLKRKLEGD ASDFHEQIAD LQAQIAELKM QLAKKEEELQ
1101 AALARLDDEI AQKNNALKKI RELEGHISDL QEDLDSEAA RNKAQKQKD
1151 LGEELEALKT ELEDTLDDTA TQQELRAKRE QEVTVLKKAL DEETRSHEAQ
1201 VQEMRQKHAQ AVEELTEQLE QFKRAKANLD KNKQTEKEN ADLAGELRVL
1251 GQAKQEVVEHK KKKLEAQVQE LQSKCSDGER ARAELNDKVH KLQNEVESVT
1301 GMLNEAEGKA IKLAKDVASL SSQLODTQEL LQEBTRQKLN VSTKLRLLEE
1351 ERNSLQDQLD EEMEAKQNLE RHISTLNIQL SDSKKKLQDF ASTVEALEEG
1401 KKRQKEIEN LTQQYEEKAA AYDKLEKTKN RLQQELDDLVD VDLNQRQLV
1451 SNLEKKQRKF DQLLAEEKNI SSKYADERDR AEAEAREKET KALSLARALE
1501 EALEAKEELE RTNKMLKAEM EDLVSSKDDV GKNVHELEKS KRALETQMEE

FIG. 4A

1551 MKTQLEELED ELQATEDAKL RLEVMQALK GQFERDLQAR DEQNEEKRRQ
1601 LQRQLHEYET ELEDERKQRA LAAAANKKLE GDLKDLELQA DSAIKGREEA
1651 IKQLRKLQAO MKDFQRELED ARASRDEIFA TAKENEEKKAK SLEADLMQLQ
1701 EDLAAAERAR KQADLEKEEL AEELASSLSG RNALQDEKRR LEARIAQLEE
1751 ELEEEOGNME AMSDRVRKAT QQAEQLSNEL ATERSTAQKN ESARQQLERQ
1801 NKELRSKLHE MEGAVKSKFK STIAALEAKI AQLEEQVEQE AREKQAATKS
1851 LKQKDKKLKE ILLQVEDERK MAEQYKEQAE KGNARVKQLK RQLEEABEES
1901 QRINANRRKL QRELDEATES NEAMGREVNA LKSKLRRGNE TSFVPSRRSG
1951 GRRVIENADG SEEETDTRDA DFNGTKASE

FIG. 4B

FIG. 4B

1 ATGGCGCAGA AGGGCCAACT CAGTGACGAT GAGAAGTTCC TCTTTGTGGA
 51 CAAAAACTTC ATCAACAGCC CAGTGGCCCA GGCTGACTGG GCCGCCAAGA
 101 GACTCGTCTG GGTCCCCTCG GAGAAGCAGG GCTTCGAGGC AGCCAGCATT
 151 AAGGAGGAGA AGGGGGATGA GGTGGTTGTG GAGCTGGTGG AGAATGGCAA
 201 GAAGGTCACG GTTGGGAAAAG ATGACATCCA GAAGATGAAC CCACCCAAGT
 251 TCTCCAAGGT GGAGGACATG GCGGAGCTGA CGTGCCTCAA CGAAGCCTCC
 301 GTGCTACACA ACCTGAGGGA GCGGTACTTC TCAGGGCTAA TATATACGTA
 351 CTCTGGCCTC TTCTGCGTGG TGGTCAACCC CTATAAACAC CTGCCCATCT
 401 ACTCGGAGAA GATCGTCGAC ATGTACAAGG GCAAGAAGAG GCACGAGATG
 451 CCGCCTCACA TCTACGCCAT CGCAGACACG GCCTACCGGA GCATGCTTCA
 501 AGATCGGGAG GACCAGTCCA TTCTATGCAC AGGCGAGTCT GGAGCCGGGA
 551 AAACCGAAAA CACCAAGAAG GTCATTCACT ACCTGGCCGT GGTGGCCTCC
 601 TCCCACAAGG GCAAGAAAGA CACAAGTATC ACGCAAGGCC CATCTTTTGC
 651 CTACGGAGAG CTGGAAAAGC AGCTTCTACA AGCAAACCCG ATTCTGGAGG
 701 CTTTCGGCAA CGCCAAAACA GTGAAGAAGC ACAACTCCTC ACGATTCTGGC
 751 AAATTCATCC GCATCAACTT CGACGTCACG GGTACATCG TGGGAGCCAA
 801 CATTGAGACC TATCTGCTAG AAAAATCACG GGCAATTTCG CAAGCCAGAG
 851 ACGAGAGGAC ATTCCACATC TTTTACTACA TGATTGCTGG AGCCAAGGAG
 901 AAGATGAGAA GTGACTTGCT TTTGGAGGGC TTCAACAACT ACACCTTCCT
 951 CTCCAATGGC TTTGTGCCCA TCCCAGCAGC CCAGGATGAT GAGATGTTCC
 1001 AGGAAACCGT GGAGGCCATG GCAATCATGG GTTTCAGCGA GGAGGAGCAG
 1051 CTATCCATAT TGAAGGTGGT ATCATCGGTC CTGCAGCTTG GAAATATCGT
 1101 CTTCAAGAAG GAAAGAAACA CAGACCAGGC GTCCATGCCA GATAACACAG
 1151 CTGCTCAGAA AGTTTGCCAC CTCATGGGAA TTAATGTGAC AGATTTTACC
 1201 AGATCCATCC TCACTCCTCG TATCAAGGTT GGGCGAGATG TGGTACAGAA
 1251 AGCTCAGACA AAAGAACAGG CTGACTTTGC TGTAAGAGGCT TTGGCCAAGG
 1301 CAACATATGA GCGCCTTTTC CGCTGGATAC TCACCCGCGT GAACAAAGCC
 1351 CTGGACAAGA CCCATCGGCA AGGGGCTTCC TTCCTGGGGA TCCTGGATAT
 1401 AGCTGGATTT GAGATCTTTG AGGTGAACTC CTTGAGCAG CTGTGCATCA
 1451 ACTACACCAA CGAGAAGCTG CAGCAGCTCT TCAACCACAC CATGTTTCATC
 1501 CTGGAGCAGG AGGAGTACCA GCGCGAGGGC ATCGAGTGGA ACTTCATCGA

FIG. 5A

1551 CTTTGGGCTG GACCTACAGC CCTGCATCGA GCTCATCGAG CGACCGAACA
1601 ACCCTCCAGG TGTGCTGGCC CTGCTGGACG AGGAATGCTG GTTCCCCAAA
1651 GCCACGGACA AGTCTTTCGT GGAGAAGCTG TGCACGGAGC AGGGCAGCCA
1701 CCCCAGTTC CAGAAGCCCA AGCAGCTCAA GGACAAGACT GAGTTCTCCA
1751 TCATCCATTA TGCTGGGAAG GTGGACTATA ATGCGAGTGC CTGGCTGACC
1801 AAGAATATGG ACCCGCTGAA TGACAACGTG ACTTCCCTGC TCAATGCCTC
1851 CTCCGACAAG TTTGTGGCCG ACCTGTGGAA GGACGTGGAC CGCATCGTGG
1901 GCCTGGACCA GATGGCCAAG ATGACGGAGA GCTCGCTGCC CAGCGCCTCC
1951 AAGACCAAGA AGGGCATGTT CCGCACAGTG GGGCAGCTGT ACAAGGAGCA
2001 GCTGGGCAAG CTGATGACCA CGCTACGCAA CACCACGCCC AACTTCGTGC
2051 GCTGCATCAT CCCCACCAC GAGAAGAGGT CCGGCAAGCT GGATGCG

FIG. 5B

09927597.004004

1	MAQKGQLSDD	EKFLFVDKNF	INSPVAQADW	AAKRLVWVPS	EKQGFEAASI
51	KEEKGDDEVVV	ELVENGKKVT	VGKDDIQKMN	PPKFSKVEDM	AELTCLNEAS
101	VLHNLRERYF	SGLIYTYSGL	FCVVVNPYKH	LPIYSEKIVD	MYKGKKRHEM
151	PPHIYAIADT	AYRSMQLDRE	DQSILCTGES	GAGKTENTKK	VIQYLAVVAS
201	SHKGKKDTSI	TQGPSFAYGE	LEKQLLQANP	ILEAFGNAKT	VKNDNSSRFG
251	KFIRINFDTV	GYIVGANIET	YLLEKSRAIR	QARDERTFHI	FYYMIAGAKE
301	KMRSDLLLEG	FNNYTFLSNG	FVPIPAAQDD	EMFQETVEAM	AIMGFSEEEQ
351	LSILKVSSV	LQLGNIVFKK	ERNTDQASMP	DNTAAQKVCH	LMGINVTDFT
401	RSILTPRIKV	GRDVVQKAQT	KEQADFAVEA	LAKATYERLF	RWILTRVNKA
451	LDKTHRQGAS	FLGILDIAGF	EIFEVNSFEQ	LCINYNTNEKL	QQLFNHTMFI
501	LEQEEYQREG	IEWNFIDFGL	DLQPCIELIE	RPNNPPGVLA	LLDEECWFPPK
551	ATDKSFVEKL	CTEQGSHPKF	QKPKQLKDKT	EFsiiHYAGK	VDYNASAWLT
601	KNMDPLNDNV	TSLLNASSDK	FVADLWKDVD	RIVGLDQMAK	MTESSLPSAS
651	KTKKGFMRTV	GQLYKEQLGK	LMTTLRNTTP	NFVRCIIPNH	EKRSGKLDA

FIG. 6

1 ATGGCGCAGA AGGGCCAAC T CAGTGACGAT GAGAAGTTCC TCTTTGTGGA
 51 CAAAAACTTC ATCAACAGCC CAGTGGCCCA GGCTGACTGG GCCGCCAAGA
 101 GACTCGTCTG GGTCCCCTCG GAGAAGCAGG GCTTCGAGGC AGCCAGCATT
 151 AAGGAGGAGA AGGGGGATGA GGTGGTTGTG GAGCTGGTGG AGAATGGCAA
 201 GAAGGTCACG GTTGGGAAAG ATGACATCCA GAAGATGAAC CCACCCAAGT
 251 TCTCCAAGGT GGAGGACATG GCGGAGCTGA CGTGCCTCAA CGAAGCCTCC
 301 GTGCTACACA ACCTGAGGGA GCGGTACTTC TCAGGGCTAA TATATACGTA
 351 CTCTGGCCTC TTCTGCGTGG TGGTCAACCC CTATAAACAC CTGCCCATCT
 401 ACTCGGAGAA GATCGTCGAC ATGTACAAGG GCAAGAAGAG GCACGAGATG
 451 CCGCCTCACA TCTACGCCAT CGCAGACACG GCCTACCGGA GCATGCTTCA
 501 AGATCGGGAG GACCAGTCCA TTCTATGCAC AGGCGAGTCT GGAGCCGGGA
 551 AAACCGAAAA CACCAAGAAG GTCATTCACT ACCTGGCCGT GGTGGCCTCC
 601 TCCCACAAGG GCAAGAAAGA CACAAGTATC ACGCAAGGCC CATCTTTTGC
 651 CTACGGAGAG CTGGAAAAGC AGCTTCTACA AGCAAACCCG ATTCTGGAGG
 701 CTTTCGGCAA CGCCAAAACA GTGAAGAACG ACAACTCCTC ACGATTCGGC
 751 AAATTCATCC GCATCAACTT CGACGTCACG GGTACATCG TGGGAGCCAA
 801 CATTGAGACC TATCTGCTAG AAAAATCACG GGCAATTCGC CAAGCCAGAG
 851 ACGAGAGGAC ATTCCACATC TTTTACTACA TGATTGCTGG AGCCAAGGAG
 901 AAGATGAGAA GTGACTTGCT TTTGGAGGGC TTCAACAACT ACACCTTCCT
 951 CTCCAATGGC TTTGTGCCCA TCCCAGCAGC CCAGGATGAT GAGATGTTCC
 1001 AGGAAACCGT GGAGGCCATG GCAATCATGG GTTTCAGCGA GGAGGAGCAG
 1051 CTATCCATAT TGAAGGTGGT ATCATCGGTC CTGCAGCTTG GAAATATCGT
 1101 CTTCAAGAAG GAAAGAAACA CAGACCAGGC GTCCATGCCA GATAACACAG
 1151 CTGCTCAGAA AGTTTGCCAC CTCATGGGAA TTAATGTGAC AGATTTTACC
 1201 AGATCCATCC TCACTCCTCG TATCAAGGTT GGGCGAGATG TGGTACAGAA
 1251 AGCTCAGACA AAAGAACAGG CTGACTTTGC TGTAGAGGCT TTGGCCAAGG
 1301 CAACATATGA GCGCCTTTTC CGCTGGATAC TCACCCGCGT GAACAAAGCC
 1351 CTGGACAAGA CCCATCGGCA AGGGGCTTCC TTCTGGGGA TCCTGGATAT
 1401 AGCTGGATTT GAGATCTTTG AGGTGAACTC CTTGAGCAG CTGTGCATCA
 1451 ACTACACCAA CGAGAAGCTG CAGCAGCTCT TCAACCACAC CATGTTTCATC
 1501 CTGGAGCAGG AGGAGTACCA GCGCGAGGGC ATCGAGTGGA ACTTCATCGA

FIG. 7A

1551 CTTTGGGCTG GACCTACAGC CCTGCATCGA GCTCATCGAG CGACCGAACA
 1601 ACCCTCCAGG TGTGCTGGCC CTGCTGGACG AGGAATGCTG GTTCCCCAAA
 1651 GCCACGGACA AGTCTTTCGT GGAGAAGCTG TGCACGGAGC AGGGCAGCCA
 1701 CCCCAGTTC CAGAAGCCCA AGCAGCTCAA GGACAAGACT GAGTTCTCCA
 1751 TCATCCATTA TGCTGGGAAG GTGGACTATA ATGCGAGTGC CTGGCTGACC
 1801 AAGAATATGG ACCCGCTGAA TGACAACGTG ACTTCCCTGC TCAATGCCTC
 1851 CTCCGACAAG TTTGTGGCCG ACCTGTGGAA GGACGTGGAC CGCATCGTGG
 1901 GCCTGGACCA GATGGCCAAG ATGACGGAGA GCTCGCTGCC CAGCGCCTCC
 1951 AAGACCAAGA AGGGCATGTT CCGCACAGTG GGGCAGCTGT ACAAGGAGCA
 2001 GCTGGGCAAG CTGATGACCA CGCTACGCAA CACCACGCCC AACTTCGTGC
 2051 GCTGCATCAT CCCCACCAC GAGAAGAGGT CCGGCAAGCT GGATGCGTTC
 2101 CTGGTGCTGG AGCAGCTGCG GTGCAATGGG GTGCTGGAAG GCATTTCGCAT
 2151 CTGCCGGCAG GGCTTCCCCA ACCGGATCGT CTTCCAGGAG TTCCGCCAAC
 2201 GCTACGAGAT CCTGGCGGCG AATGCCATCC CCAAAGGCTT CATGGACGGG
 2251 AAGCAGGCCT GCATTCTCAT GATCAAAGCC CTGGAAGTTG ACCCCAAGTT
 2301 ATACAGGATA GGGCAG

FIG. 7B

1 MAQKGQLSDD EKFLFVDKNF INSPVAQADW AAKRLVWVPS EKQGFEEAASI
 51 KEEKGDEVVV ELVENGKKVT VGKDDIQKMN PPKFSKVEDM AELTCLNEAS
 101 VLHNLRRERYF SGLIYTYSGL FCVVVNPYKH LPIYSEKIVD MYKGKKRHEM
 151 PPHIYAIADT AYRSMLQDRE DQSILCTGES GAGKTENTKK VIQYLAVVAS
 201 SHKGGKDTSI TQGPFAYGE LEKQLLQANP ILEAFGNAKT VKNDNSSRFG
 251 KFIRINFDTV GYIVGANIET YLLEKSRAIR QARDERTFHI FYYMIAGAKE
 301 KMRSDDLLEG FNNTYFLSNG FVPIPAQDD EMFQETVEAM AIMGFSEEEQ
 351 LSILKVVSSV LQLGNIVFKK ERNTDQASMP DNTAAQKVCH LMGINVTDFE
 401 RSILTPRIKV GRDVVQKAQT KEQADFAVEA LAKATYERLF RWILTRVNKA
 451 LDKTHRQGAS FLGILDIAGF EIFEVNSFEQ LCINYTNEKL QQLFNHTMFI
 501 LEQEEYQREG IEWNFIDFGL DLQPCIELIE RPNPPGVLA LLDEECWFPPK
 551 ATDKSFVEKL CTEQGSHPKF QKPKQLKDKT EFSIIHYAGK VDYNASAWLT
 601 KNMDPLNDNV TSLLNASSDK FVADLWKDVD RIVGLDQMAK MTESSLPSAS
 651 KTKKGMFRTV GQLYKEQLGK LMTTLRNTTP NFVRCIIPNH EKRSGLDAF
 701 LVLEQLRCNG VLEGIRICRQ GFPNRIVFQE FRQRYEILAA NAIPKGFMDG
 751 KQACILMIKA LELEDPNLYRI GQ

FIG. 8

1 ATGGCGCAGA AGGGCCAACT CAGTGACGAT GAGAAGTTCC TCTTTGTGGA
 51 CAAAAACTTC ATCAACAGCC CAGTGGCCCA GGCTGACTGG GCCGCCAAGA
 101 GACTCGTCTG GGTCCCCTCG GAGAAGCAGG GCTTCGAGGC AGCCAGCATT
 151 AAGGAGGAGA AGGGGGATGA GGTGGTTGTG GAGCTGGTGG AGAATGGCAA
 201 GAAGGTCACG GTTGGGAAAAG ATGACATCCA GAAGATGAAC CCACCCAAGT
 251 TCTCCAAGGT GGAGGACATG GCGGAGCTGA CGTGCCTCAA CGAAGCCTCC
 301 GTGCTACACA ACCTGAGGGA GCGGTACTTC TCAGGGCTAA TATATACGTA
 351 CTCTGGCCTC TTCTGCGTGG TGGTCAACCC CTATAAACAC CTGCCCATCT
 401 ACTCGGAGAA GATCGTCGAC ATGTACAAGG GCAAGAAGAG GCACGAGATG
 451 CCGCCTCACA TCTACGCCAT CGCAGACACG GCCTACCGGA GCATGCTTCA
 501 AGATCGGGAG GACCAGTCCA TTCTATGCAC AGGCGAGTCT GGAGCCGGGA
 551 AAACCGAAAA CACCAAGAAG GTCATTCACT ACCTGGCCGT GGTGGCCTCC
 601 TCCCACAAGG GCAAGAAAGA CACAAGTATC ACGCAAGGCC CATCTTTTGC
 651 CTACGGAGAG CTGGAAAAGC AGCTTCTACA AGCAAACCCG ATTCTGGAGG
 701 CTTTCGGCAA CGCCAAAACA GTGAAGAACG ACAACTCCTC ACGATTCTGGC
 751 AAATTCATCC GCATCAACTT CGACGTCACG GGTACATCG TGGGAGCCAA
 801 CATTGAGACC TATCTGCTAG AAAAATCACG GGCAATTCGC CAAGCCAGAG
 851 ACGAGAGGAC ATTCCACATC TTTTACTACA TGATTGCTGG AGCCAAGGAG
 901 AAGATGAGAA GTGACTTGCT TTTGGAGGGC TTCAACAACT ACACCTTCCT
 951 CTCCAATGGC TTTGTGCCCA TCCCAGCAGC CCAGGATGAT GAGATGTTCC
 1001 AGGAAACCGT GGAGGCCATG GCAATCATGG GTTTCAGCGA GGAGGAGCAG
 1051 CTATCCATAT TGAAGGTGGT ATCATCGGTC CTGCAGCTTG GAAATATCGT
 1101 CTTCAAGAAG GAAAGAAACA CAGACCAGGC GTCCATGCCA GATAACACAG
 1151 CTGCTCAGAA AGTTTGCCAC CTCATGGGAA TTAATGTGAC AGATTTCACC
 1201 AGATCCATCC TCACTCCTCG TATCAAGGTT GGGCGAGATG TGGTACAGAA
 1251 AGCTCAGACA AAAGAACAGG CTGACTTTGC TGTAAGAGGCT TTGGCCAAGG
 1301 CAACATATGA GCGCCTTTTC CGCTGGATAC TCACCCGCGT GAACAAAGCC
 1351 CTGGACAAGA CCCATCGGCA AGGGGCTTCC TTCTTGGGGA TCCTGGATAT
 1401 AGCTGGATTT GAGATCTTTG AGGTGAACTC CTTGAGCAG CTGTGCATCA
 1451 ACTACACCAA CGAGAAGCTG CAGCAGCTCT TCAACCACAC CATGTTTCATC
 1501 CTGGAGCAGG AGGAGTACCA GCGCGAGGGC ATCGAGTGGA ACTTCATCGA

FIG. 9A

1551 CTTTGGGCTG GACCTACAGC CCTGCATCGA GCTCATCGAG CGACCGAACA
 1601 ACCCTCCAGG TGTGCTGGCC CTGCTGGACG AGGAATGCTG GTTCCCCAAA
 1651 GCCACGGACA AGTCTTTCGT GGAGAAGCTG TGCACGGAGC AGGGCAGCCA
 1701 CCCCAGTTC CAGAAGCCCA AGCAGCTCAA GGACAAGACT GAGTTCTCCA
 1751 TCATCCATTA TGCTGGGAAG GTGGACTATA ATGCGAGTGC CTGGCTGACC
 1801 AAGAATATGG ACCCGCTGAA TGACAACGTG ACTTCCCTGC TCAATGCCTC
 1851 CTCCGACAAG TTTGTGGCCG ACCTGTGGAA GGACGTGGAC CGCATCGTGG
 1901 GCCTGGACCA GATGGCCAAG ATGACGGAGA GCTCGCTGCC CAGCGCCTCC
 1951 AAGACCAAGA AGGGCATGTT CCGCACAGTG GGGCAGCTGT ACAAGGAGCA
 2001 GCTGGGCAAG CTGATGACCA CGCTACGCAA CACCACGCCC AACTTCGTGC
 2051 GCTGCATCAT CCCCACCAC GAGAAGAGGT CCGGCAAGCT GGATGCGTTC
 2101 CTGGTGCTGG AGCAGCTGCG GTGCAATGGG GTGCTGGAAG GCATTTCGCAT
 2151 CTGCCGGCAG GGCTTCCCCA ACCGGATCGT CTTCCAGGAG TTCCGCCAAC
 2201 GCTACGAGAT CCTGGCGGCG AATGCCATCC CCAAAGGCTT CATGGACGGG
 2251 AAGCAGGCCT GCATTCTCAT GATCAAAGCC CTGGAACCTG ACCCCAACCT
 2301 ATACAGGATA GGGCAGAGCA AAATCTTCTT CCGAACTGGC GTCCTGGCCC
 2351 ACCTAGAGGA GGAGCGAGAT TTGAAGATCA CCGATGTCAT CATGGCCTTC
 2401 CAGGCGATGT GTCGTGGCTA CTTGGCCAGA AAGGCTTTTG CCAAGAGGCA
 2451 GCAGCAGCTG ACCGCCATGA AGGTGATTCA GAGGAACTGC GCCGCCTACC
 2501 TCAAGCTGCG GAACTGGCAG TGGTGGAGGC TTTTCACCAA AGTGAAG

FIG. 9B

1 MAQKGQLSDD EKFLFVDKNF INSPVAQADW AAKRLVWVPS EKQGFEEAASI
 51 KEEKGDEVVV ELVENGKKVT VGKDDIQKMN PPKFSKVEDM AELTCLNEAS
 101 VLHNLRLERYF SGLIYTYSGL FCVVVNPHYKH LPIYSEKIVD MYKGKKRHEM
 151 PPHIYAIADT AYRSMQLDRE DQSILCTGES GAGKTENTKK VIQYLAVVAS
 201 SHKGKKDTSI TQGPSFAYGE LEKQLLQANP ILEAFGNAKT VKNDNSSRFG
 251 KFIRINFDTV GYIVGANIET YLLEKSRAIR QARDERTFHI FYYMIAGAKE
 301 KMRSDDLLEG FNNTYFLSNG FVPIPAQDD EMFQETVEAM AIMGFSEEEQ
 351 LSILKVVSSV LQLGNIVFKK ERNTDQASMP DNTAAQKVCH LMGINVTDFI
 401 RSILTPRIKV GRDVVQKAQT KEQADFAVEA LAKATYERLF RWILTRVNKA
 451 LDKTHRQAS FLGILDIAGF EIFEVNSFEQ LCINYTNEKL QQLFNHTMFI
 501 LEQEYQREG IEWNFIDFGL DLQPCIELIE RPNNPPGVLA LLDEECWFPK
 551 ATDKSFVEKL CTEQGSHPKF QKPKQLKDKT EFSIIHYAGK VDYNASAWLT
 601 KNMDPLNDNV TSLNASSDK FVADLWKDVD RIVGLDQMAK MTESSLPSAS
 651 KTKKGMFRTV GQLYKEQLGK LMTTLRNTTP NFVRCIIPNH EKRSGLDAF
 701 LVLEQLRCNG VLEGIRICRQ GFPNRIVFQE FRQRYEILAA NAIPKGFMDG
 751 KQACILMIKA LELDPNLYRI GQSKIFFRTG VLAHLEERD LKITDVIMAF
 801 QAMCRGYLAR KAFKRQQQL TAMKVIQRNC AAYLKLNRWQ WWRLFTKVK

FIG. 10

004001 004001 004001

1 ATGGCGCAGA AGGGCCAACT CAGTGACGAT GAGAAGTTCC TCTTTGTGGA
 51 CAAAAACTTC ATCAACAGCC CAGTGGCCCA GGCTGACTGG GCCGCCAAGA
 101 GACTCGTCTG GGTCCCCTCG GAGAAGCAGG GCTTCGAGGC AGCCAGCATT
 151 AAGGAGGAGA AGGGGGATGA GGTGGTTGTG GAGCTGGTGG AGAATGGCAA
 201 GAAGGTCACG GTTGGGAAAAG ATGACATCCA GAAGATGAAC CCACCCAAGT
 251 TCTCCAAGGT GGAGGACATG GCGGAGCTGA CGTGCCTCAA CGAAGCCTCC
 301 GTGCTACACA ACCTGAGGGA GCGGTACTTC TCAGGGCTAA TATATACGTA
 351 CTCTGGCCTC TTCTGCGTGG TGGTCAACCC CTATAAACAC CTGCCCATCT
 401 ACTCGGAGAA GATCGTCGAC ATGTACAAGG GCAAGAAGAG GCACGAGATG
 451 CCGCCTCACA TCTACGCCAT CGCAGACACG GCCTACCGGA GCATGCTTCA
 501 AGATCGGGAG GACCAGTCCA TTCTATGCAC AGGCGAGTCT GGAGCCGGGA
 551 AAACCGAAAA CACCAAGAAG GTCATTCACT ACCTGGCCGT GGTGGCCTCC
 601 TCCCACAAGG GCAAGAAAGA CACAAGTATC ACGCAAGGCC CATCTTTTGC
 651 CTACGGAGAG CTGGAAAAGC AGCTTCTACA AGCAAACCCG ATTCTGGAGG
 701 CTTTCGGCAA CGCCAAAACA GTGAAGAACG ACAACTCCTC ACGATTCGGC
 751 AAATTCATCC GCATCAACTT CGACGTCACG GGTACATCG TGGGAGCCAA
 801 CATTGAGACC TATCTGCTAG AAAAATCACG GGCAATTCGC CAAGCCAGAG
 851 ACGAGAGGAC ATTCCACATC TTTTACTACA TGATTGCTGG AGCCAAGGAG
 901 AAGATGAGAA GTGACTTGCT TTTGGAGGGC TTCAACAACT ACACCTTCCT
 951 CTCCAATGGC TTTGTGCCCA TCCCAGCAGC CCAGGATGAT GAGATGTTCC
 1001 AGGAAACCGT GGAGGCCATG GCAATCATGG GTTTCAGCGA GGAGGAGCAG
 1051 CTATCCATAT TGAAGGTGGT ATCATCGGTC CTGCAGCTTG GAAATATCGT
 1101 CTTCAAGAAG GAAAGAAACA CAGACCAGGC GTCCATGCCA GATAACACAG
 1151 CTGCTCAGAA AGTTTGCCAC CTCATGGGAA TTAATGTGAC AGATTTACCC
 1201 AGATCCATCC TCACTCCTCG TATCAAGGTT GGGCGAGATG TGGTACAGAA
 1251 AGCTCAGACA AAAGAACAGG CTGACTTTGC TGTAAGAGGCT TTGGCCAAGG
 1301 CAACATATGA GCGCCTTTTC CGCTGGATAC TCACCCGCGT GAACAAAGCC
 1351 CTGGACAAGA CCCATCGGCA AGGGGCTTCC TTCTGGGGA TCCTGGATAT
 1401 AGCTGGATTT GAGATCTTTG AGGTGAACTC CTTGAGCAG CTGTGCATCA
 1451 ACTACACCAA CGAGAAGCTG CAGCAGCTCT TCAACCACAC CATGTTTCATC
 1501 CTGGAGCAGG AGGAGTACCA GCGCGAGGGC ATCGAGTGGA ACTTCATCGA

FIG. 11A

1551 CTTTGGGCTG GACCTACAGC CCTGCATCGA GCTCATCGAG CGACCGAACA
 1601 ACCCTCCAGG TGTGCTGGCC CTGCTGGACG AGGAATGCTG GTTCCCCAAA
 1651 GCCACGGACA AGTCTTTCGT GGAGAAGCTG TGCACGGAGC AGGGCAGCCA
 1701 CCCCAGTTC CAGAAGCCCA AGCAGCTCAA GGACAAGACT GAGTTCTCCA
 1751 TCATCCATTA TGCTGGGAAG GTGGACTATA ATGCGAGTGC CTGGCTGACC
 1801 AAGAATATGG ACCCGCTGAA TGACAACGTG ACTTCCCTGC TCAATGCCTC
 1851 CTCCGACAAG TTTGTGGCCG ACCTGTGGAA GGACGTGGAC CGCATCGTGG
 1901 GCCTGGACCA GATGGCCAAG ATGACGGAGA GCTCGCTGCC CAGCGCCTCC
 1951 AAGACCAAGA AGGGCATGTT CCGCACAGTG GGGCAGCTGT ACAAGGAGCA
 2001 GCTGGGCAAG CTGATGACCA CGCTACGCAA CACCACGCCC AACTTCGTGC
 2051 GCTGCATCAT CCCCACCAC GAGAAGAGGT CCGGCAAGCT GGATGCGTTC
 2101 CTGGTGCTGG AGCAGCTGCG GTGCAATGGG GTGCTGGAAG GCATTTCGCAT
 2151 CTGCCGGCAG GGCTTCCCCA ACCGGATCGT CTTCCAGGAG TTCCGCCAAC
 2201 GCTACGAGAT CCTGGCGGCG AATGCCATCC CCAAAGGCTT CATGGACGGG
 2251 AAGCAGGCCT GCATTCTCAT GATCAAAGCC CTGGAACCTG ACCCCAACCTT
 2301 ATACAGGATA GGGCAGAGCA AAATCTTCTT CCGAACTGGC GTCCTGGCCC
 2351 ACCTAGAGGA GGAGCGAGAT TTGAAGATCA CCGATGTCAT CATGGCCTTC
 2401 CAGGCGATGT GTCGTGGCTA CTTGGCCAGA AAGGCTTTTG CCAAGAGGCA
 2451 GCAGCAGCTG ACCGCCATGA AGGTGATTCA GAGGAACTGC GCCGCCTACC
 2501 TCAAGCTGCG GAACTGGCAG TGGTGGAGGC TTTTCACCAA AGTGAAGCCA
 2551 CTGCTG

FIG. 11B

1	MAQKGQLSDD	EKFLFVDKNF	INSPVAQADW	AAKRLVWVPS	EKQGFEEAASI
51	KEEKGDDEVVV	ELVENGKKVT	VGKDDIQKMN	PPKFSKVEDM	ABLTCLNEAS
101	VLHNLRERYF	SGLIYTYSGL	FCVVVNPYKH	LPIYSEKIVD	MYKGKKRHEM
151	PPHIYAIADT	AYRSMQLQDRE	DQSILCTGES	GAGKTENTKK	VIQYLAVVAS
201	SHKGKKDTSI	TQGPSFAYGE	LEKQLLQANP	ILEAFGNAKT	VKNDNSSRFG
251	KFIRINFDTV	GYIVGANIET	YLLEKSRAIR	QARDERTFHI	FYYMIAGAKE
301	KMRSDLLLEG	FNNTYFSLNG	FVPIPAQDD	EMFQETVEAM	AIMGFSEEEQ
351	LSILKVSSV	LQLGNIVFKK	ERNTDQASMP	DNTAAQKVCH	LMGINVTDFT
401	RSILTPRIKV	GRDVVQKAQT	KEQADFAVEA	LAKATYERLF	RWILTRVNKA
451	LDKTHRQGAS	FLGILDIAGF	EIFEVNSFEQ	LCINYTNEKL	QQLFNHTMFI
501	LEQEEYQREG	IEWNFIDFGL	DLQPCIELIE	RPNNPPGVLA	LLDEECWFPK
551	ATDKSFVEKL	CTEQGSHPKF	QKPKQLKDKT	EFsiiHYAGK	VDYNASAWLT
601	KNMDPLNDNV	TSLLNASSDK	FVADLWKDVD	RIVGLDQMAK	MTESSLPSAS
651	KTKKGMFRTV	GQLYKEQLGK	LMTTLRNTTP	NFVRCIIPNH	EKRSGKLDAF
701	LVLEQLRCNG	VLEGIRICRQ	GFPNRIVFQE	FRQRYEILAA	NAIPKGFMDG
751	KQACILMIKA	LELDPNLYRI	GQSKIFFRTG	VLAHLEEERD	LKITDVIMAF
801	QAMCRGYLAR	KAFAKRQQQL	TAMKVIQRNC	AAYLKLRNWQ	WWRLFTKVKP
851	LL				

FIG. 12

1 ATGGCGCAGA AGGGCCAACT CAGTGACGAT GAGAAGTTCC TCTTTGTGGA
 51 CAAAAACTTC ATCAACAGCC CAGTGGCCCA GGCTGACTGG GCCGCCAAGA
 101 GACTCGTCTG GGTCCCCTCG GAGAAGCAGG GCTTCGAGGC AGCCAGCATT
 151 AAGGAGGAGA AGGGGGATGA GGTGGTTGTG GAGCTGGTGG AGAATGGCAA
 201 GAAGGTCACG GTTGGGAAAG ATGACATCCA GAAGATGAAC CCACCCAAGT
 251 TCTCCAAGGT GGAGGACATG GCGGAGCTGA CGTGCC'TCAA CGAAGCCTCC
 301 GTGCTACACA ACCTGAGGGA GCGGTACTTC TCAGGGCTAA TATATACGTA
 351 CTCTGGCCTC TTCTGCGTGG TGGTCAACCC CTATAAACAC CTGCCCATCT
 401 ACTCGGAGAA GATCGTCGAC ATGTACAAGG GCAAGAAGAG GCACGAGATG
 451 CCGCCTCACA TCTACGCCAT CGCAGACACG GCCTACCGGA GCATGCTTCA
 501 AGATCGGGAG GACCAGTCCA TTCTATGCAC AGGCGAGTCT GGAGCCGGGA
 551 AAACCGAAAA CACCAAGAAG GTCATTCACT ACCTGGCCGT GGTGGCCTCC
 601 TCCCACAAGG GCAAGAAAGA CACAAGTATC ACGGGAGAGC TGGAAAAGCA
 651 GCTTCTACAA GCAAACCCGA TTCTGGAGGC TTTCGGCAAC GCCAAAACAG
 701 TGAAGAACGA CAACTCCTCA CGATTGCGCA AATTCATCCG CATCAACTTC
 751 GACGTCACGG GTTACATCGT GGGAGCCAAC ATTGAGACCT ATCTGCTAGA
 801 AAAATCACGG GCAATTCGCC AAGCCAGAGA CGAGAGGACA TTCCACATCT
 851 TTTACTACAT GATTGCTGGA GCCAAGGAGA AGATGAGAAG TGACTTGCTT
 901 TTGGAGGGCT TCAACAATA CACCTTCCTC TCCAATGGCT TTGTGCCCAT
 951 CCCAGCAGCC CAGGATGATG AGATGTTCCA GGAAACCGTG GAGGCCATGG
 1001 CAATCATGGG TTTCAGCGAG GAGGAGCAGC TATCCATATT GAAGGTGGTA
 1051 TCATCGGTCC TGCAGCTTGG AAATATCGTC TTCAAGAAGG AAAGAAACAC
 1101 AGACCAGGCG TCCATGCCAG ATAACACAGC TGCTCAGAAA GTTTGCCACC
 1151 TCATGGGAAT TAATGTGACA GATTTCACCA GATCCATCCT CACTCCTCGT
 1201 ATCAAGGTTG GGCGAGATGT GGTACAGAAA GCTCAGACAA AAGAACAGGC
 1251 TGACTTTGCT GTAGAGGCTT TGGCCAAGGC AACATATGAG CGCCTTTTCC
 1301 GCTGGATACT CACCCGCGTG AACAAAGCCC TGGACAAGAC CCATCGGCAA
 1351 GGGGCTTCCT TCCTGGGGAT CCTGGATATA GCTGGATTG AGATCTTTGA
 1401 GGTGAACTCC TTCGAGCAGC TGTGCATCAA CTACACCAAC GAGAAGCTGC
 1451 AGCAGCTCTT CAACCACACC ATGTTTCATCC TGGAGCAGGA GGAGTACCAG
 1501 CGCGAGGGCA TCGAGTGGA CTTTCATCGAC TTTGGGCTGG ACCTACAGCC

FIG. 13A

1551 CTGCATCGAG CTCATCGAGC GACCGAACAA CCTCCAGGT GTGCTGGCCC
 1601 TGCTGGACGA GGAATGCTGG TTCCCCAAAG CCACGGACAA GTCTTTCGTG
 1651 GAGAAGCTGT GCACGGAGCA GGGCAGCCAC CCCAAGTTCC AGAAGCCCAA
 1701 GCAGCTCAAG GACAAGACTG AGTTCTCCAT CATCCATTAT GCTGGGAAGG
 1751 TGGACTATAA TGCGAGTGCC TGGCTGACCA AGAATATGGA CCCGCTGAAT
 1801 GACAACGTGA CTTCCCTGCT CAATGCCTCC TCCGACAAGT TTGTGGCCGA
 1851 CCTGTGGAAG GACGTGGACC GCATCGTGGG CCTGGACCAG ATGGCCAAGA
 1901 TGACGGAGAG CTCGCTGCCC AGCGCCTCCA AGACCAAGAA GGGCATGTTC
 1951 CGCACAGTGG GGCAGCTGTA CAAGGAGCAG CTGGGCAAGC TGATGACCAC
 2001 GCTACGCAAC ACCACGCCCCA ACTTCGTGCG CTGCATCATC CCCAACCACG
 2051 AGAAGAGGTC CGGCAAGCTG GATGCGTTCC TGGTGCTGGA GCAGCTGCGG
 2101 TGCAATGGGG TGCTGGAAGG CATTCGCATC TGCCGGCAGG GCTTCCCCAA
 2151 CCGGATCGTC TTCCAGGAGT TCCGCCAACG CTACGAGATC CTGGCGGCGA
 2201 ATGCCATCCC CAAAGGCTTC ATGGACGGGA AGCAGGCCTG CATTCTCATG
 2251 ATCAAAGCCC TGGAAC TTGA CCCC AACTTA TACAGGATAG GGCAGAGCAA
 2301 AATCTTCTTC CGAACTGGCG TCCTGGCCCA CCTAGAGGAG GAGCGAGATT
 2351 TGAAGATCAC CGATGTCATC ATGGCCTTCC AGGCGATGTG TCGTGGCTAC
 2401 TTGGCCAGAA AGGCTTTTGC CAAGAGGCAG CAGCAGCTGA CCGCCATGAA
 2451 GGTGATTCAG AGGAACTGCG CCGCCTACCT CAAGCTGCGG AACTGGCAGT
 2501 GGTGGAGGCT TTTCACCAA GTGAAGCCAC TGCTG

FIG. 13B

1 MAQKGQLSDD EKFLFVDKNF INSPVAQADW AAKRLVWVPS EKQGFEEAASI
 51 KEEKGDEVVV ELVENGKKVT VGKDDIQKMN PPKFSKVEDM AELTCLNEAS
 101 VLHNLRRERYF SGLIYTYSGL FCVVVNPKYH LPIYSEKIVD MYKGKKRHEM
 151 PPHIYAIADT AYRSMLQDRE DQSILCTGES GAGKTENTKK VIQYLAVVAS
 201 SHKGKKDTSI TQGPFAYGE LEKQLLQANP ILEAFGNAKT VKNDNSSRFG
 251 KFIRINFDTV GYIVGANIET YLLEKSRAIR QARDERTFHI FYMIAGAKE
 301 KMRSDLLLEG FNNTYFLSNG FVPIPAQDD EMFQETVEAM AIMGFSEEEQ
 351 LSILKVSSV LQLGNIVFKK ERNTDQASMP DNTAAQKVCH LMGINVTDFI
 401 RSILTPRIKV GRDVVQKAQT KEQADFAVEA LAKATYERLF RWILTRVNKA
 451 LDKTHRQGAS FLGILDIAGF EIFEVNSFEQ LCINYTNEKL QQLFNHTMFI
 501 LEQEEYQREG IEWNFIDFGL DLQPCIELIE RPNPPGVLA LLDEECWFPA
 551 ATDKSFVEKL CTEQGSHPKF QPKQLKDKT EFSIIHYAGK VDYNASAWLT
 601 KNMDPLNDNV TSLNASSDK FVADLWKDVD RIVGLDQMAK MTESSLPSAS
 651 KTKKGMFRTV GQLYKEQLGK LMTTLRNTTP NFVRCIIPNH EKRSGLDA

FIG. 14